ELECTRODE PLACEMENT DETERMINATION FOR SUBCUTANEOUS CARDIAC MONITORING AND THERAPY

ABSTRACT OF THE DISCLOSURE

Methods and devices of cardiac electrode placement involve locating electrodes on a thorax of a patient. Surface pacing levels are determined relative to a pacing limit. Surface electrode locations are selected or rejected based on the level being within a limit. Electrodes may be relocated to new locations, and new surface pacing levels determined, until a new surface pacing level falls within the pacing limit. Selecting or rejecting electrode locations involves selecting locations suitable for implantation of subcutaneous cardiac electrodes and implanting at the selected locations. An automated method uses an array of surface electrode elements that are scanned for their associated pacing levels, such as by selecting one or more electrode element locations having the lowest pacing levels, which may correspond to locations suitable for implantation of a subcutaneous cardiac electrode and housing, a subcutaneous electrode array, a unitary subcutaneous defibrillation system, or other suitable implantable cardiac device.